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## Network Fault Alerting System and Method

## **ABSTRACT**

An enhancement to computer network maintenance technology which reduces redundant and inaccurate fault reporting and alerting based upon implementation of logic which determines the most likely single point of failure. In modern computer and telephone networks, certain single points of failure result in the false appearance of multiple failures. However, by analyzing the pattern of apparent failures in view of the known network topology, a single point of failure can be determined as the root cause of the multiple failure indications. An enhancement to the currently-available network maintenance technology, including software applications executing on network server platforms, provides this fault determination logic, filters spurious and incorrect failure reports, and posts failure reports only for the single point failure.